

1.Component NAVY	FY 2005 MILITARY CONSTRUCTION PROGRAM			2.Date 13 JAN 2004
3. Installation and Location/UIC: N00210 NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS			4. Project Title RTC RECRUIT BARRACKS	
5.Program Element 0203276N	6.Category Code 72115	7. Project Number P738	8. Project Cost (\$000) 35,920	
9. COST ESTIMATES				
Item	UM	Quantity	Unit Cost	Cost(\$000)
RTC RECRUIT BARRACKS (179,757 SF)	m2	16,700		28130
RECRUIT BARRACKS (150,566 SF)	m2	13,988	1,421.57	(19880)
APPLIED INSTRUCTION BUILDING (14,338 SF)	m2	1,332	2,172.30	(2890)
ENLISTED DINING FACILITY (14,854 SF)	m2	1,380	3,421.50	(4720)
BUILT-IN EQUIPMENT	LS			(100)
TECHNICAL OPERATING MANUALS	LS			(200)
ANTI-TERRORISM/FORCE PROTECTION	LS			(340)
SUPPORTING FACILITIES				3570
ELECTRICAL UTILITIES	LS			(390)
MECHANICAL UTILITIES	LS			(450)
PAVING AND SITE IMPROVEMENTS	LS			(430)
DEMOLITION	LS			(2300)
SUBTOTAL				31700
CONTINGENCY (5%)				1590
TOTAL CONTRACT COST				33290
SIOH (6%)				2000
SUBTOTAL				35290
DESIGN/BUILD - DESIGN COST				630
TOTAL REQUEST ROUNDED				35920
TOTAL REQUEST				35920
10. Description of Proposed Construction				
<p>Recruit Barracks:</p> <p>Construct a three story open-bay, concrete frame, brick veneer, metal roof building to accommodate 1,056 recruits, including classrooms and a modified enlisted closed mess to serve the entire 1056 recruits and staff in 60 minutes (food serving and eating area only). The facility will have an entrance canopy, a fire protection system, utilities, heating, ventilating and air conditioning system, pipelines, technical operating manuals, paving, and site improvements. Demolition of one existing bachelor quarters (9129 square meters) and one classroom building (5622 square meters) is included. Built-in equipment includes an elevator.</p> <p>Intended Grade Mix: 1,056 Recruits</p> <p>Maximum Utilization: 1,056 Recruits</p> <p>Confidence Course:</p> <p>Construct a one story open-bay, steel frame, brick veneer, metal roof building to accommodate 176 recruits, including classroom/briefing area, recruit heads, staff office, and mechanical spaces. The facility will have an entry canopy, acoustical treatments, a fire protection system, utilities, heating, ventilating and air conditioning, pipelines,</p>				

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<p>technical operating manuals, paving, and site improvements. Demolition of the existing Confidence Course Building 1414 (1,395 square meters) is included. Built-in equipment includes fourteen obstacles/events.</p> <p>Both facilities include anti-terrorism/force protection features. The facilities will be constructed to seismic zone 1 criteria. Sustainable design principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13123 and other laws and executive orders.</p>				
<p>11. Requirement: <u>16168PN</u> Adequate: <u>8888PN</u> Substandard: <u>7280PN</u></p> <p>PROJECT: Construct a new 1,056 person Recruit Barracks at the Recruit Training Command (RTC) to provide adequate berthing space, messing facilities, and academic instruction spaces in the same building (all in one complex - AIOC) and a confidence course building to provide adequate training. (Current Mission)</p> <p>REQUIREMENT: Adequate recruit barracks and indoor confidence course training space are required to support the Chief of Naval Operations approved surge capacity for RTC Great Lakes of 16,168 recruits. Currently, the individual recruit barracks house 1,056 recruits in less than 50 NSF per person. This is in violation of the current minimum standard of 72 NSF per person and requires a waiver to operate at this capacity. This project is a continuation of previous military construction (MCON) projects to correct this space deficiency and institute a new training concept where the academic recruit training is done in the same facility as the living quarters. This new training concept is currently being used successfully by the Army and Air Force and utilizes an all in one complex (AIOC) for more efficient use of training time. A study conducted by Naval Facilities Engineering Command (NAVFAC) (Southern Division) and Naval Air Warfare Center (Southern Division) (NAWCTSD) supported use of this training concept at RTC Great Lakes. The current total barracks capacity is 10,800 based on current space criteria. Other approved MCON projects will partially eliminate the deficiency. Future projects will continue to be submitted to replace all of the existing barracks using this AIOC concept. For training purposes, divisions are best sized at 88 PN. With 12 divisions planned for each building, this requires a total of 1056 recruits per building.</p> <p>CURRENT SITUATION:</p>				

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<p>Recruit Barracks:</p> <p>Recruit training is hampered by the lack of suitable or adequate berthing facilities. Currently, recruits are housed in barracks that have a space allowance of less than 50 NSF per recruit and a waiver is required to operate in this manner. This does not meet the current standard of 72 NSF per recruit. In addition, the current facilities were built in the 1950s and 1960s and are reaching the end their useful life. Maintenance is a major problem and there is no air conditioning or forced air ventilation in any of the barracks. They are heated with steam fin tube radiators along the perimeter walls and there is virtually no control. Windows have to be opened to control the temperature. Many of the windows are inoperative. The buildings do not meet current ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) outside air ventilation requirements. Court yards are a waste of usable space. The gang heads were built for a capacity of 60 which is not sufficient for the existing 88-94 persons per division. The only fire protection is smoke detectors. The exterior of the structures are deteriorated with exposed re-bar in many areas due to spalling concrete. The water, sewer, and electrical systems are old, undersized, and unreliable. Based on a current study evaluating the RTC Barracks, approximately \$25 million per barracks will be required to correct the current maintenance backlog and criteria deficiencies. The poor condition of the facilities results in recruits being housed in uncomfortable, unsafe, crowded, and potentially unhealthy conditions.</p> <p>Confidence Course:</p> <p>The existing Confidence Course is located on a site designated for a new recruit barracks facility. Due to limited availability of land, required setbacks from perimeter fences, and ATPF standoff requirements, the siting for the new barracks falls within the existing confidence course site thereby requiring the demolition of the existing confidence course building. Therefore, a new confidence course is required to replace the existing confidence course facility. The current confidence course requires extensive travel by the recruits thereby reducing available training time. The new course will be located closer to recruit berthing areas and other training areas, thereby, reducing transit time.</p> <p>IMPACT IF NOT PROVIDED:</p> <p>Recruit Barracks:</p> <p>Recruits will continue to be housed in uncomfortable, unsafe, crowded, and potentially unhealthy conditions. An inordinate amount of training time will be lost due to the distance between berthing and classrooms and due to the time spent waiting in line for meals. If the deficiency is not corrected, the training mission requirements will be</p>				

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<p>severely impacted by reducing training time, training consistency, and increased attrition. The Navy's long range recruiting goals will not be realized if these facility deficits continue to exist. Mission support and readiness throughout the Navy will be impacted if recruit training is limited by lack of berthing and training spaces. These deficiencies at RTC Great Lakes are resulting in the inability to train an adequate number of recruits to meet the fleet requirement of 56,000 throughput and a 16,168 surge requirement. Furthermore, the opportunity to significantly improve training efficiency and quality through an "all in one concept" will be lost. This is a major concern to Chief of Naval Operations (CNO), the Secretary of the Navy, and Congress.</p> <p>Confidence Course: An inordinate amount of training time will continue to be lost due to the travel distance to the existing confidence course. If the new confidence course is not constructed in FY2005, then RTC will be without a confidence course for approximately one year to allow the demolition of the existing course and new barracks construction to proceed in FY2006.</p>			

12. Supplemental Data:

A. Estimated Design Data:

1. Status:

(A) Date Design Start	082002
(B) Date Design 35% Complete	092004
(C) Date Design Completed	042005
(D) Percent Completed as of SEPTEMBER 2003	3%
(E) Percent Completed as of JANUARY 2004	3%
(F) Type of Design Contract	Design Build
(G) Parametric Estimate used to develop cost	Yes
(H) Energy study/Life cycle analysis performed	Yes

2. Basis:

(A) Standard or Definitive Design:	Yes
(B) Where Design Was Most Recently Used:	P730 / 731 Recruit Barracks

3. Total Cost (C) = (A) + (B) = (D) + (E) : \$300

(A) Production of Plans and Specifications	\$250
(B) All other Design Costs	\$50
(C) Total	\$300
(D) Contract	\$50
(E) In-House	\$250

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4. Contract Award 012005 5. Construction Start 042005 6. Construction Complete 072006 B. Equipment associated with this project which will be provided from other appropriations: NONE C. FY 2003 R&M Conducted (\$000): \$10,596 D. FY 2004 R&M Conducted (\$000): \$15,482 E. Future R&M Requirements (\$000): \$16,926 JOINT USE CERTIFICATION: The Regional Commander certifies that this project has been considered for joint use potential. Unilateral Construction is recommended. This Facility can be used by other components on an as available basis; however, the scope of the project is based on Navy requirements. Activity POC: LCDR JANET MERRIMAN Phone No: (847)-688-4211 Ext. 102			